For Teacher and School Use:

NIDES Online Summer Study Grade 7 and 8 Language Arts and Math

Detailed Course Descriptions for

- **English Language Arts 7** **page 1**
- **Math 7** **page 3**
- **English Language Arts 8** **page 5**
- **Math 8** **page 8**

(Reference for school use in completing Summer Study Registration Form and Course Selection Form)

Please note that approximately 25-30 hours will be required to complete the option selected. Selections should be made on a 'best fit' basis (in terms of student needs).

Students MUST have access to a computer and the Internet.

These are NOT correspondence-style packages.

English Language Arts 7:

English Language Arts 7
(Two selections exist. Students do one of these two only for summer upgrading.)

1. **Module 2 – Technical Communications**
2. **Module 3 – Convince Me**

1. Module 2—Technical Communication

Section 2.1 Introduction to Technical Writing

- The "Tech" in Technical Communication
- Applying for the Technical Writer Position
- Examples of Technical Writing
- Closer Look at Technical Writing
- Writing a Simple Brochure

Section 2.2 Creating a Product User Manual

- Product User Manuals
- Writing Instructions
- Choices, Choices
- Product Research: Just the Facts
- Product Information Research
- Writing Your Product User Manual
- Writing a First Draft of Your Product User Manual
- Revising your Product User Manual
- Editing and Proofreading Your Product User Manual
- Presenting Your Product User Manual
- Presenting Your Product User Manual

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2. Module 3—Convince Me

Section 3.1 Introduction to Persuasive Communication

- What Is Persuasive Communication?
- Examples of Persuasive Communication
- The Opening of a Persuasive Argument
- Opening a Persuasive Argument
- The Body of a Persuasive Argument
- Body Outline
- The Closing of a Persuasive Argument
- Closing Your Argument

Section 3.3 Developing Your Own Persuasive Argument

- Planning Your Persuasive Argument
- Drafting Your Persuasive Argument
- Make an Outline for Your Persuasive Argument
- Writing a First Draft of Your Persuasive Argument
- Revising Your Persuasive Argument
- Errors in Logic
- Presenting Your Persuasive Argument

Math 7

Mathematics 7 (Five selections exist. Students do one of these five only for summer upgrading.)

1. **Number Concepts and Operations (I)**
2. **Number Concepts and Operations (II)**
3. **Patterns and Relations**
4. **Shape and Space**
5. **Statistics and Probability**

1. Number Concepts and Operations (I)

- ✓ Factors, Prime and Composite Numbers
- ✓ Prime Factors
- ✓ Multiples, Least Common Multiples, and Greatest Common Factors
- ✓ Exponents
- ✓ Reading and Writing Numbers
- ✓ Scientific Notation
- ✓ Introduction to Integers
- ✓ Operation with Integers

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2. Number Concepts and Operations (II)

- ✓ Divisibility Rules
- ✓ Mixed Numbers and Improper Fractions
- ✓ Comparing and Ordering Mixed Numbers, Improper Fractions, and Decimals
- ✓ Converting from Decimals to Fractions
- ✓ Percent
- ✓ Converting between Fractions, Decimals, and Percentages
- ✓ Operations with Decimals
- ✓ Order of Operations
- ✓ Ratio, Proportion, and Rate

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3. Patterns and Relations

- ✓ Working with Patterns
- ✓ Graphing Relations
- ✓ Writing and Solving Expressions
- ✓ Solving and Verifying One-Step Equations

4. Shape and Space

- ✓ Diameter, Radius and Circumference of Circles
- ✓ Time Zones and Measuring Instruments
- ✓ Complementary and Supplementary Angles
- ✓ Angle Relationships of Parallel Lines and Transversals
- ✓ The Sum of Interior Angles of a Triangle
- ✓ Constructing Angle Bisectors and Perpendicular Bisectors
- ✓ Translations, Reflections, and Rotations
- ✓ Lines and Planes of Symmetry
- ✓ Perimeter and Area
- ✓ Volume of Simple Solids

5. Statistics and Probability

- ✓ Questioning and Data Collection
- ✓ Reading and Drawing Graphs
- ✓ Central Tendency and Data Analysis
- ✓ Probability

English Language Arts 8

English 8 (Only one option is available for summer upgrading. Students do ALL of the following.)

Skill Building/Novel Study

Novel Choices:
The Keeper of the Isis Light OR
Treasure Island

(Only one option.) Students will complete Part A and B….. Skill Builders and an Independent Novel Study. The information provided here is as a guideline for teacher selection. Do NOT duplicate for students. The assignments are done online and will be provided to students at Orientation.

Part A: Skill Builder Assignments

Skill Builders 8.1 - Welcome to High School Writing
Skill Builders 8.2 - The Basics
Skill Builders 8.3 - Reading to Write & Writing to Read

Note: Students must select one of the listed novels (***The Keeper of the Isis Light*** or ***Treasure Island***). The activities for this item are completed in Word or Open Office and submitted to NIDES Online.

Part B: Independent Novel Study

1. Write a Book Review

Your opinion matters! What you say about a book can turn other readers onto a book or turn them off. Write a review of the novel you chose to read. Remember, this is a statement of your opinion on the novel, not a summary. Begin with the title and author and then let the following questions guide you:

- What is your book about? Provide a very brief summary.
- Which characters appealed to you the most? Which appealed to you the least? Why?
- Discuss the author's writing including:
  - Realistic characters?
  - Suspense or foreshadowing?
  - Exciting action or dialogue?
  - Word pictures, images and symbolism?
  - How did he/she keep you interested?
- Remember to give examples to support your opinions.

- Is this a book that you would recommend to others? Why or why not?
- Overall, how would you rate this novel?

Feel free to present your book review in any format you would like as long as the information is clear and presentable. Some possibilities include: radio broadcast, power point slides, newspaper, TV broadcast, etc…

2. Write a News Story

Identify the climax of your novel and write a news story that describes the event. You can write a front page news story with a headline and pictures to capture this important moment. Make sure you use a newspaper format and try to fill out the rest of the front page. If you are having trouble, then take a look at the format for the front page of the local newspaper for ideas.

Another way to present the story would be through a radio or TV broadcast. Write a script to inform your audience about the climax of the novel. Then record your broadcast on an audio or video cassette. As a news reporter, you must report the facts of the event, but you must also try to capture the interest of the listener and the excitement of the moment.

3. Writing Letters (Complete <u>both letters.</u>)

A. <u>Letter to a character</u>

Write a letter to one of the main characters in your novel. This letter may be to a character that you admire or to a character that you dislike. Let the following questions help you with ideas:

- What did you admire or dislike about the character? Why?
- Why would you want to meet the character?
- What would you like to do with the character?
- What would you have done the same as the character? What would you have done differently?

B. <u>Letter to the author</u>

- What things from your past influenced your writing?
- What were your favourite parts of the book? Why?
- Were there any parts that you did not like? Why?
- Who were your favourite characters? Why did they appeal to you?
- What characters did you dislike? Why?
- Would you make any changes to the novel? What would they be?
- What did you like or dislike about the author's writing?

4. Interview a character

You are a reporter for a news program. Write a script for an interview with a character from the novel. You need to think what questions you would ask this character. You also need to think about how this character would answer your questions. Avoid using closed ended questions that can be answered with a yes or no. Set up the interview in the following format:

Reporter: Introduce character and ask first question
Character: Response
Reporter: Comment on response; second question
Character: Response

You should have at least 7-8 questions and provide thorough responses for the character.

5. Vocabulary

As you read through the novel, record words that are unfamiliar or new to you. Remember to also record the sentence and page number where they occur. Once you have created a list of words (minimum 15), use a dictionary to find their definitions. Record the definition with the word, page number and quote to create a Vocabulary Log. Use an organized and appealing format such as the one below.

Word	Quote/Context	Page Number	Definition

6. Wanted Poster

Make a "WANTED" poster for a character in the book you read. Include the following: a drawing or picture of the character, a physical description, the character's "misdeeds" (feel free to be creative there), other information you think is important (last seen, other names, friends, etc…), and the reward offered for the capture of the character. You can have some fun with this one but try to keep it linked to the novel as much as you can.

This document is for information only. Do not make student selections here. A registration form and course selection form are required. These have been provided to all schools. They are also available online at www.nides.bc.ca.

Math 8

Mathematics 8 (Four selections exist. Students do one of these four only for summer upgrading.)

1. **Number Concepts and Operations (I)**
2. **Number Concepts and Operations (II)**
3. **Patterns and Relations**
4. **Shape and Space**
5. **Statistics and Probability**

1. Number Concepts and Operations (I)

- ✓ Negative Components
- ✓ Scientific Notation
- ✓ Square Root
- ✓ Operations with Rational Numbers

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2. Number Concepts and Operations (II)

- ✓ Rational Numbers
- ✓ Ratio
- ✓ Percentage
- ✓ Operations with Fractions
- ✓ Calculating Percentage
- ✓ Ratios and Rates

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3. Patterns and Relations

- ✓ Expressions and Equations
- ✓ Substituting Variables
- ✓ Relations
- ✓ Graphing Relations
- ✓ Algebra Tiles
- ✓ One-Step Equations
- ✓ Two-Step Equations

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4. Shape and Space

- ✓ Pythagorean Theorem
- ✓ Perimeter
- ✓ Area
- ✓ 2-D Composite Figures
- ✓ 3-D Objects
- ✓ Surface Area
- ✓ Volume
- ✓ 3-D Composite Figures
- ✓ Enlargements and Reductions
- ✓ Scale Diagrams
- ✓ Maps
- ✓ Networks

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5. Statistics and Probability

- ✓ Surveys
- ✓ Survey Results
- ✓ Graphing
- ✓ Data Sets
- ✓ Stem-and-Leaf Plots and Box-and-Whisker Plots
- ✓ Probability
- ✓ Independent Events

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